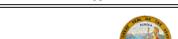
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-003821 Address: 333 Burma Road **Date Inspected:** 26-Aug-2008

City: Oakland, CA 94607

OSM Arrival Time: 1400 **Project Name:** SAS Superstructure **OSM Departure Time:** 2230 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes No Fu Yu Hong **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** OBG

Summary of Items Observed:

CALTRANS Quality Assurance (QA) Inspector, Alfredo Acuna was present for the fabrication scheduled for this project at the ZPMC facility in Shanghai, China for the San Francisco Oakland Bay Self Anchored Suspension Bridge.

Ultrasonic testing with Phased Array(UTPA)

The QA inspector performed ultrasonic testing (UT) with the phased array (PA) technology after Caltrans representatives performed the preliminary scan with the conventional UT following ZPMC UT procedure for detecting lack of penetration at the junction of deck panel to U-ribs. The QA inspector was performing 100 % UTPA at tack welds areas suspected to have crack like indications. The QA inspector confirmed crack like indications as follows: Deck Panel DP-014-001; 63 were suspected to be crack like indications with conventional UT; the QA inspector confirmed 32 indications with the phased array method.

Note 2: 2 deck panels were purchased by Caltrans for testing Initial procedural development and further procedure development & testing. At this time no writing procedure and no acceptance criteria has been issued. However, all the test samples identified as crack like indications were confirmed after macro-etching and magnetic particle testing.

Summary of Conversations:

The QA inspector did not any relevant conversation on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

remedial efforts please contact Ady Velasco, 858-344-8746, who represents the Office of Structural Materials for your project.

Inspected By:	Acuna, Alfredo	Quality Assurance Inspector
Reviewed By:	Lanz,Joe	QA Reviewer